and allow your Inverter to warm up for 5 minutes in the ON position. Plug your portable electronic device into your warmed up Inverter. Repeat if necessary. Inverter is overloaded—Reduce load to 120 Watts maximum to maintain regulation. Low input voltage—Keep input voltage above 12 Volts DC to maintain regulation. Low battery/Poor battery condition—Charge or replace your vehicle's battery. See starting and running the vehicle's engine section of this instruction guide. Inadequate power or excessive voltage drop- Check the condition of yourvehicle's battery clips and terminals. Clean or replace, as necessary.

Technical Specifications

Output power Output power (surge capability) Input voltage Output voltage RMS **Output frequency Maximum Efficiency**

Output waveform AC Receptacle Outlet

Fuse (replaceable) in the device **Unit Dimensions**

Unit weight **Storage Temperature Operating Temperature** No load current Draw Low Battery Red LED

Safety approval Length of DC Input Power Cord

Case Material

Built-in circuit protection features Input:

Output:

120W Continuous, 150W Peak

250W 11-16V DC 115V AC+/-10 Volts 60Hz+/- 4Hz

85-90%

Regulated Modified Sine Wave

North American 3 Pin Receptacle – NO GROUND 20A, 32V DC

120(L) x 70(W) x 29(H) mm 4.72(L) x 2.76(W) x 1.16(H) inches 250g – 8.8oz (includes cable & plug) -10°C to 60°C - 14°F to 140°F

0°C to 50°C - 32°F to 122°F < 0.2A 10.8V DC

CE, E-Mark, FCC, RTCA DO-160D

UL rated 94V-0

- 1. Over Voltage Protection. Automatic shut off when input exceeds 16V DC
- 2. Under Voltage Protection. LED glows RED warning of an input voltage condition of less than 11V DC.
- 1. Short circuit /Surge protection. Automatic shut off when short circuit/surge occurs.
- 2. Over load protection. Automatic shut off
- when output power exceeds 150W.

 3. Over Temperature Protection. Automatic shut off when temperature exceeds 65°C±5°C-140°F * Remove and re-insert the cigarette plug to restart the Inverter after automatic shut off occurs. Your Inverter does not automatically restart after automatic shut off occurs.

Technical Support

Technical support is available to all registered users of Kensington products. There is no charge for technical support except the cost of the phone call, and long distance charges where applicable. Technical Support Contact information can be found at the end of this instruction guide.

Technical Support Tips

- You may find the answer to your problem in the Frequently Asked Questions (FAQ) section of the Support area on the Kensington Website: www.kensington.com.
- Call from a phone where you have access to your Inverter
- Please be prepared to provide the following information:
- Name, address, and telephone number
- The name of the Kensington product

1-Year Limited Warranty

KENSINGTON TECHNOLOGY GROUP ("KENSINGTON") warrants this PRODUCT model no. 33362 against defects in material and workmanship under normal use and service for one year from the original date of purchase. KENSINGTON, at its sole option, shall repair or replace the defective unit covered by this warranty. Please retain the dated sales receipt as evidence of the date of purchase. You will need it for any warranty service. In order to keep this warranty in effect, the product must have been handled and used as prescribed in the instructions accompanying this warranty. This warranty does not cover any damage due to accident, misuse, abuse, or negligence.

DISCLAIMER OF WARRANTY

EXCEPT FOR THE LIMITED WARRANTY PROVIDED HEREIN, TO THE EXTENT PERMITTED BY LAW, KENSINGTON DISCLAIMS ALL OTHER IMPLIED OR EXPRESS WARRANTIES INCLUDING ALL WARRANTIES OF MERCHANTABILITY AND/OR FITNESS FOR A PARTICULAR PURPOSE. TO THE EXTENT THAT ANY IMPULED WARRANTIES MAY NONETHELESS EXIST BY OPERATION OF LAW, ANY SUCH WARRANTIES ARE LIMITED TO THE ONE-YEAR DURATION OF THIS WARRANTY. SOME STATE/PROVINCES DO NOT ALLOW LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY LASTS, SO THE ABOVE LIMITATIONS MAY NOT APPLY TO YOU.

LIMITATION OF LIABILITY

LIMITATION OF LIABILITY
REPAIR OR REPLACEMENT OF THIS PRODUCT, AS PROVIDED HEREIN, IS YOUR EXCLUSIVE REMEDY. KENSINGTON SHALL NOT BE LIABLE FOR ANY DAMAGES, WHETHER DIRECT, INDIRECT, INCIDENTAL, SPECIAL, CONSEQUENTIAL, EXEMPLARY, OR OTHERWISE, INCLUDING LOST REVENUES, LOST PROFITS, LOSS OF USE OF SOFTWARE, LOSS OR RECOVERY OF DATA, RENTAL OF REPLACEMENT EQUIPMENT, DOWNTIME, DAMAGE TO PROPERTY, AND THIRD-PARTY CLAIMS, ARISING OUT OF ANY THEORY OF RECOVERY, INCLUDING STATUTORY, CONTRACT OR TORT. NOTWITHSTANDING THE TERM OF ANY LIMITED OR IMPLIED WARRANTY, OR IN THE EVENT THAT ANY LIMITED WARRANTY FAILS OF ITS ESSENTIAL PURPOSE, IN NO EVENT WILL KENSINGTON'S ENTIRE LIABILITY EXCEED THE PURCHASE PRICE OF THIS PRODUCT. SOME STATES AND PROVINCES DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES SO THE ABOVE LIMITATIONS OR EXCLUSIONS MAY NOT APPLY TO YOU. THIS LIMITED WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS, AND YOU MAY ALSO HAVE OTHER RIGHTS WHICH VARY FROM STATE TO STATE AND PROVINCE TO PROVINCE.

FEDERAL COMMUNICATIONS COMMISSION RADIO FREQUENCY INTERFERENCE STATEMENT

NOTE: THE KENSINGTON PRODUCT MODEL # 33362 HAS BEEN TESTED AND FOUND TO COMPLY WITH THE LIMITS FOR A CLASS B DIGITAL DEVICE, PURSUANT TO PART 15 OF THE FCC RULES. THESE LIMITS ARE DESIGNED TO PROVIDE REASONABLE PROTECTION AGAINST HARMFUL INTERFERENCE IN A RESIDENTIAL INSTALLATION. THIS EQUIPMENT GENERATES, USES AND CAN RADIATE RADIO FREQUENCY ENERGY AND, INSTALLED AND USED IN ACCORDANCE WITH THE INSTRUCTIONS, MAY CAUSE HARMFUL INTERFERENCE TO RADIO COMMUNICATIONS.

INTERFERENCE ID NADIO COMMINICATIONS.

HOWEVER, THERE IS NO GUARANTEE THAT THE INTERFERENCE WILL NOT OCCUR IN A PARTICULAR INSTALLATION. IF THIS EQUIPMENT DOES CAUSE HARMFUL INTERFERENCE TO RADIO AND TELEVISION RECEPTION, WHICH CAN BE DETERMINED BY TURNING THE EQUIPMENT OFF AND ON, THE USER IS ENCOURAGED TO TRY TO CORRECT THE INTERFERENCE BY ONE OR MORE OF THE FOLLOWING MEASURES:

REORIENT OR RELOCATE THE RECEIVING ANTENNA.

- INCREASE THE SEPARATION BETWEEN THE EQUIPMENT AND RECEIVER

CONSULT THE DEALER OR EXPERIENCED RADIO/TV TECHNICIAN FOR HELP.

MODIFICATIONS: MODIFICATIONS NOT EXPRESSLY APPROVED BY KENSINGTON MAY VOID THE USER'S AUTHORITY TO OPERATE THE DEVICE UNDER FCC REGULATIONS AND MUST NOT BE MADE.

CABLES: IN ORDER TO MEET FCC REQUIREMENTS THIS DEVICE MUST BE CONNECTED DIRECTLY TO A WER SOURCE LISING ONLY THE CARLE PROVIDED

DECLARATION OF CONFORMITY COMPLIANCE STATEMENT FOR THE **KENSINGTON PORTABLE POWER INVERTER 150**

THE KENSINGTON PRODUCT MODEL # 33362 COMPLIES WITH PART 15 OF THE FCC RULES. OPERATION IS SUBJECT TO TWO CONDITIONS: 1. THIS DEVICE MAY NOT CAUSE HARMFUL INTERFERENCE, AND 2. THIS DEVICE MUST ACCEPT ANY INTERFERENCE RECEIVED. INCLUDING INTERFERENCE THAT MAY CAUSE UNDESIRED OPERATION. AS DEFINED IN SECTION 2.909 OF THE FCC RULES, THE RESPONSIBLE PARTY FOR THIS DEVICE IS KENSINGTON TECHNOLOGY GROUP, 333 TWIN DOLPHIN DRIVE, REDWOOD SHORES, CALIFORNIA 94065

CE DECLARATION OF CONFORMANCE

The Kensington Ultra Portable Power Inverter 150 (model no. K33362) has been tested in accordance with essential requirements for CE marking. Kensington herewith confirms that this product complies with all the requirements set out in the council Directive on the application of the laws of the member states relating to the Electromagnetic Compatibility 89/336/EEC, Low Voltage Directive (LVD) 73/23/EEC and the amendments in the Council Directive 92/31/EEC & 93/68/EEC.

Please visit www.support.kensington.com for more information.

Contacting Kensington

Troubleshooting information and answers to frequently asked questions are available 24 hours a day on the Kensington Web site at www.support.kensington.com.

Support by Telephone

Technical Support is available by telephone. Please visit www.kensington.com

for hours. U.S. and Canada 800-535-4242 Mexico 52(55)5384-0620 ngton is a registered U.S. trademark of ACCO Brands Corporation with issued registrations and

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Kensington[®]

Ultra Portable Power Inverter 150

Instruction Guide



901-1865-00

Congratulations

Your new Kensington Ultra Portable Power Inverter 150 is a high efficiency device designed to provide you with AC power in your vehicle. Your Inverter will work from any 12 Volt cigarette lighter/vehicle power source and even in your seat on airlines offering EMPOWER™ ports!

Please read this short instruction guide to safely and properly use your new Inverter. Keep this instruction guide handy and on file for future reference. Please register your Inverter on-line at www.kensington.com/register Your new Inverter is one of the safest and most advanced DC to AC Inverters

available today. Its compact and sleek design is thin at only 1.16 inches tall and light at only 8.8oz. (cable included). With proper care and usage, it will give you years of reliable service complementing your active lifestyle wherever you go. Your Inverter supplies 115 Volts of AC power in a continuous stream of 120 Watts, and up to 150 Watts of peak power for start-up of your portable electronic device. Your Inverter is convenient and easy-to use, ready to $% \left(1\right) =\left(1\right) \left(1\right) \left$ supply AC power when you need it in the car or on the plane! Your Inverter is intended to power notebook computers requiring up to

120 Watts of continuous power but can also be used to power other portable electronic devices, including digital cameras, mobile phones, video cameras, iPod/MP3 music players, PDAs, and more!

Features

- 1. One three-pin AC receptacle
- 2. Provides AC power in a car or on a plane
- Plugs into any standard 12V cigarette lighter outlet or 12V vehicle
- Cigarette lighter plug converts into an airline compatible EMPOWER™ outlet
- Compact, thin and lightweight—only 1.16 inch tall and 8.8oz in weight
- Ultra portable, fits conveniently in your notebook carrying case or glove box Fan cooled, ensuring good ventilation and reliable performance
- Built-in safety features including over current protection, low and over supply voltage protection, and over temperature protection
- Sleek design looks good in any vehicle
- 10. Provides 115V AC and a North American three-pin receptacle in most vehicles
- 11. LED light indicator
- 12. ON/OFF switch

Note: For use onboard aircraft offering EMPOWER™ ports. Check with your carrier to determine if this feature is offered onboard the aircraft you are intending to travel on.

Important: Safety Information



This instruction guide contains important safety and operating instructions for your Inverter. Please carefully read and follow the important safety instructions in this guide before installing and using your Inverter to reduce the risk of injury and

Failure to follow the warnings in this instruction guide may cause damage to the vehicle/aircraft your Inverter is drawing DC power from, the device you are powering, and/or cause electrical shock that could result in serious injury or death.

Warning! Electrical Hazard!



Your Inverter generates the same potentially lethal AC power as a normal household wall outlet.

To prevent serious or fatal injury and/or property damage follow the safety

- Your Inverter is not a toy. Keep it away from children.
- Keep and refer to your instruction guide. All persons who use your Inverter must read and follow the instructions on installing and operating the Inverter.
- Do not insert foreign objects into the AC receptacle located on the top of
- Keep your Inverter dry. Do not expose your Inverter to water, rain, snow or spray. Stop using your Inverter immediately if it has been exposed to direct moisture. Consult a qualified technician before resuming use of your Inverter if exposed to moisture.
- Do not replace your Inverter's fuse with anything other than the specified fuse.
- Do not cover, block, or insert foreign objects into the cooling vents on the
- Do not attempt to open or repair your Inverter. All repairs must be made by a qualified technician. Modifying or tampering with your Inverter's external or internal components could result in serious or fatal injury and/or property damage. Opening, modifying, or tampering with your Inverter will void the warranty.
- Do not use your Inverter if it is in any way damaged. Inspect the Inverter, including cords, for damage before each use.

Warning! Do Not Operate Your Inverter or Portable Electronic **Device While Driving!**

You may become distracted from safe driving while attempting to operate your Inverter or portable electronic device your Inverter is powering. This unsafe action may lead to a traffic accident resulting in personal injury and/ or property damage.

Warning! Use only Double Insulated Portable Electronic Devices with Your Inverter!



A polarized three-pin AC receptacle is provided for your convenience to accept devices with three-pin plugs. The earth/ground pin is not grounded and your Inverter should not be used with devices requiring an earth/ground connection. Most digital devices do not require an earth/ground connection as they are Double Insulated and should have the Imark on the product label. Please check the product label on the device you wish to power before using it with your Inverter.

Warning! Do Not Run Your Vehicle's Engine in a Garage or Other Enclosed Area!



If you are running your vehicle's engine while stationary to power the portable electronic device you have plugged into your Inverter, or to re-charge the vehicle's battery, do so only in a well ventilated area, and away from other enclosed areas. Automotive and recreational vehicles emit carbon monoxide which can cause serious injury or death if the vehicle's engine is running in a garage or other enclosed area, or near other enclosed areas.

Warning! Ensure that Your Inverter's Power Cable Does Not Become Tangled with Your Vehicle's Driving Controls!



When using your Inverter in your vehicle ensure that the Inverter and its power cable is positioned in such a manner that it does not impede upon the use of the foot controls (brake, clutch, throttle) or hand controls (gearshift, steering wheel) which may lead to an unsafe vehicle operating condition.

When operating your vehicle, Kensington strongly recommends stowing your Inverter in a safe place such as the glove box when not in use. If your Inverter is in use during the operation of the vehicle ensure that your Inverter is a safe distance from the driving controls and will not become tangled with the driving controls during the operation of the vehicle.

Warning! Your Inverter May Become Hot During Operation, and Requires Proper Ventilation!

To Prevent Injury and Property Damage:

- Do not place your Inverter near a heat source, heat vent, or in direct sunlight.
- Provide adequate ventilation and do not place any item on or near your Inverter during operation.
- Do not use your Inverter inside a closed glove compartment, console, or airline seat pocket.
- Keep your Inverter away from flammable materials or other items that can be damaged by high temperatures.
- Do not operate the Inverter near flammable fumes or gases.
- Loose connections can generate harmful heat and/or damage to your Inverter or power source. To prevent this from occurring periodically check that your Inverter's input power cable and output connections are tight.
- Do not operate or leave your Inverter unattended while in use.
- Do not touch the tip of your Inverter's cigarette lighter plug or the end of the Inverter cable after use. The plug may be hot.

Warning! Some AC Products are Not Compatible with Your Inverter!

If either your Inverter's fuse is blown or its overload protection components are activated then do not continue attempting to power any of the following:

- AC load circuit in which the neutral conductor is connected to ground (earth) or to the negative of the DC (battery) source.
- RV or household AC distribution wiring or extension cords
- Small battery-operated products such as rechargeable flashlights, some rechargeable shavers, and night-lights that are plugged directly into an AC receptacle to recharge.
- Certain battery chargers for battery packs used in hand power tools. These
 chargers will have warning labels stating that dangerous voltages are
 present at the charger's battery terminals.
- Your Inverter will not operate appliances and equipment that produce heat, such as microwave ovens, toasters, kettles, hair dryers/curling irons, and electrical heaters. Do not use your Inverter with these products.
- Your Inverter is not recommended for use with inductive loads such as: pumps, compressors, or fluorescent lamps.

Using Your Inverter

Kensington recommends turning your Inverter *OFF* after use and unplugging it from the cigarette lighter/vehicle power source.

To Connect Your Inverter to a Cigarette Lighter or Vehicle Power Source

 Connect your Inverter to the power source by inserting the cigarette lighter plug firmly into the cigarette lighter/vehicle power source or other DC power supply.

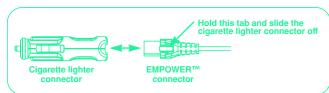


Warning! Use caution when removing your vehicle's cigarette lighter plug from its socket. The cigarette lighter may be hot and could burn your skin or ignite flammable materials. Allow the lighter to completely cool before storing it in a safe place.

- 2. Ensure that the portable electronic device that you are intending to power with your Inverter does not draw more than 120 Watts of continuous AC power. Check the product label of your electronic device for the voltage (Volts) and current (Amps) requirements of the device that you intend to power with your Inverter. Multiply these two numbers together Volts x Amps = power requirement of the device measured in Watts (W). If this number exceeds 120 Watts your Inverter will not be able to power this device!
- Plug the portable electronic device that you are intending to power into the AC receptacle of your Inverter and turn the device ON.
- Ensure that the ON/OFF Switch located on the side of your Inverter is in the ON position. Your Inverter's LED will glow when the Inverter is properly connected to the DC source.

To Connect Your Inverter to an EMPOWER™ Port Onboard an Aircraft

 On the end of your Inverter power cable locate the Cigarette Lighter/Vehicle Power Adapter. Push down on the tab, and pull the cigarette plug apart from the in-flight connector. The part remaining at the end of your Inverter power cable will plug into an EMPOWER™ port.



- Find the in-flight connector socket near your airline seat, and plug the inflight connector into the socket firmly. When you need to use your Inverter in a vehicle, just reconnect the cigarette plug with the in-flight connector once again.
- Ensure that the ON/OFF Switch located on the side of your Inverter is in the ON position. Your Inverter's LED will glow when the Inverter is properly connected to the DC source.

Note: Only 75W of continuous power will be available from an EMPOWERTM port. This is for your and the other passenger's safety. If your device requires more than 75W of power the device may not work onboard an aircraft. Some notebooks requiring more than 75W may still function, but switch between "charging" and "battery" and suffer from a decrease in performance.

Preventing Overheating

- 1. Your Inverter needs to have the best possible air flow around it while operating. Note that the air flows into the back (intake) vents located near your Inverter's power cable and exits through vents on the top of the Inverter next to the AC receptacle. Do not restrict the airflow as your Inverter may overheat.
- 2. Do not operate your Inverter near a heat source, heat vent, or in direct sunlight.
- 3. Ambient air temperature should be between 23 and 122° F. (-5–50° C)—optimal performance temperatures are between 60 and 80° F. (15–25° C).

Automatic Overheating Shutdown

If your Inverter's internal temperature rises above 140° F (60° C) the Inverter will automatically shut itself off. To resume operating your Inverter once it has shutdown please remove the cigarette plug adapter from the DC power source and wait at least 15 minutes before reinserting the cigarette plug adapter.

Starting and Running Your Vehicle's Engine

- Your Inverter may be used with or without your vehicle's engine running. However, your Inverter may momentarily stop operating while your vehicle's engine is starting as the battery voltage can drop substantially during cranking.
- Your Inverter draws less than 0.2 Amps from your vehicle's battery when it
 is not supplying power to a load. Therefore, in most instances, your Inverter
 can be left connected to your vehicle's DC power source when not in use
 since it draws so little current. However, if your vehicle is to remain unused
 for more than one day, disconnect your Inverter from your vehicle's DC power
 source. Kensington recommends turning your Inverter OFF when not in use
 with the switch located on the side of the Inverter. The LED located on the top

of your Inverter will not glow when the Inverter is successfully turned OFF.

- Depending on variables such as battery condition, device being operated, even weather, an automotive battery can be discharged after 2 to 8 hours of use. Users should either monitor voltage or start the vehicle every hour to recharge the vehicle's battery. This will guard against any unexpected shutdown of the equipment and will ensure that there is always sufficient power to start your vehicle.
- With the engine running the vehicle's battery has much more capacity
 available and at a higher voltage. If the Inverter is shutting down due to an
 excessive load with the engine off, keeping the vehicle's engine running
 may remedy the problem.



Warning! Do Not Run Your Vehicle's Engine in a Garage or Other Enclosed Area! If you are running your vehicle's engine while stationary to power the portable electronic device you have plugged into your Inverter, or to re-charge the vehicle's battery, do so only in a well ventilated area, away from other enclosed areas. Automotive and recreational vehicles emit carbon dioxide which can cause serious injury or death if the vehicle's engine is running in a garage or other enclosed area, or near other enclosed areas.

Operation of Your Inverter's Automatic Safety Shutdown Features

Over-voltage — Your Inverter's LED will glow RED and automatically shuts down when the input voltage from your vehicle or its battery exceeds 16V DC. Remove and reinsert the cigarette plug adapter to restart your Inverter. Low-voltage — Your Inverter's LED will glow RED when the input voltage from your vehicle or its battery is less than 11V DC. Restart your vehicle's engine to recharge its battery.

Overload — Your Inverter's LED will glow RED and automatically shuts down when the AC draw exceeds 150 Watts. Remove and reinsert the cigarette plug adapter to restart your Inverter.

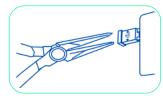
A short circuit — Your Inverter automatically shuts down when it detects a short circuit or reverse polarity. This condition will usually result in the fuse being blown. If this condition occurs, immediately disconnect the portable electronic device and replace your Inverter's fuse as described in the fuse replacement section, to follow.

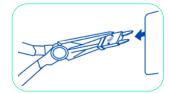
Overheating — Your Inverter's LED will glow RED and automatically shuts down when the internal temperature exceeds 140° F 60° C. Remove the cigarette plug adapter from the DC power source and allow your Inverter to cool for at least 15 minutes before reinserting the cigarette plug adapter.



Warning! Do not touch the tip of your Inverter's cigarette plug adapter after use. The plug may be hot and could burn your skin or ignite flammable materials. Allow your Inverter's cigarette plug adapter to completely cool before storing it in a safe place.

Fuse Replacement







Warning! Ensure that your Inverter is disconnected from the 12V DC power source before replacing the internal fuse. Failure to do so may cause electrical shock!

- Your Inverter's fuse is located inside the Inverter. Do not disassemble the cigarette plug adapter. Open the Fuse Door located on the bottom of your Inverter to gain access to the fuse.
- 2. Using a pair of needle nosed pliers (not included with your purchase) as demonstrated above, carefully remove the automotive blade type fuse.
- 3. Replace the fuse with a fuse of equal rating (20A 32VDC) and type. Do not use a fuse of a higher rating as this could result in damage to the portable electronic device you are powering or the aircraft/vehicle your Inverter is drawing DC power from.
- 4. To check or replace the fuse of the vehicle providing DC power to your Inverter please refer to your vehicle's *Owner's Manual*. Kensington recommends closely following the instructions and warnings provided by the vehicle's manufacturer.
- 5. Determine the cause of the overload/short circuit before restarting

DC Power Source Requirements

Your Inverter must be connected only to vehicles with a DC power source rated at a nominal output voltage of 12 Volts. Your Inverter will not operate from a 6 Volt battery and will be damaged if it is connected to a 24 Volt battery. The power source must provide between 11–15.5 Volts DC. The power source may be a battery or other well-regulated 12 Volt DC power supply. Check your vehicle's *Owner's Manual*.

The power supply must also be able to deliver the current necessary to operate the load created by the portable electronic device that you are intending to power. As a rough guideline, divide the power consumption of the device (in Watts) by 12 (the nominal input voltage) to obtain the current (in Amps) the power source must deliver.

Example: If a device is rated at 120 Watts; the power source must be able to deliver: (120/12) = 10 Amps. Most vehicular 12 Volt cigarette lighter outlets have fuses that will permit the outlet to draw between 15 and 20 Amps.

AC Power Draw Guidelines

maximum 120 Watts.

Most electrical tools, appliances and audio/video equipment have labels that indicate the power consumption in Amps or Watts. Be sure that the continuous power consumption of the device you wish to power is rated at 120 Watts or less. If the power consumption of the device is rated in Amps, simply multiply by the AC volts (115) to determine the wattage. For example, a power drill rated at 1 Amp will draw 115 Watts. Do not use your Inverter to operate a device that requires more than 120 Watts of continuous power.

Troubleshooting

"Buzzing" sound in audio systems—Some inexpensive stereo systems and "Boom Boxes" can emit a buzzing sound from their speakers when operated from your Inverter. This occurs because the power supply in the electronic device does not adequately filter the modified sine wave produced by your Inverter. The only solution to this problem is to use a sound system that incorporates a higher quality power supply.

Television interference—Your Inverter is shielded and filtered to minimize interference with TV signals. In some cases, some interference may still be visible, particularly with weak TV signals. Try the following corrective measures:

- Position your Inverter as far as possible from the television, the antenna and the antenna cables.
- Adjust the orientation of your Inverter, the antenna cables, and the

the vehicle's engine is off the ignition key must be in the "on" or "accessory'

TV power cord to minimize interference.

Make sure that the antenna feeding the TV provides an adequate ("snow

free") signal and that high quality, shielded antenna cable is used.

Lack of AC power output—Some vehicle's electrical systems require that when

position in order to power the cigarette lighter.

Blown fuse in your Inverter or in your vehicle's 12V outlet circuit—
Replace your Inverter's fuse as directed in the fuse replacement section of this instruction guide. Refer to your vehicle's *Owner's Manual* for instructions on replacing blown fuses. Be sure that the Inverter is connected to a power source with correct voltage and polarity and the portable electronic device that you are intending to power does not require 120 Watts or more of

AC power continuously.

Battery voltage below 11 Volts DC—Charge or replace your vehicle's battery.

Equipment being operated draws too much power—Reduce load to

Inverter in thermal shutdown condition—Unplug your Inverter from the power source and allow it to cool down. Ensure there is adequate ventilation around your Inverter. Ensure that the device you are intending to power does not require more than 120 Watts of AC power for continuous operation.

Inverter not adequately warmed up—Plug your Inverter into your vehicle's power source without the portable electric device plugged into the AC receptacle